

SEP 23 2005

PTO/SB/22 (12-04)

Approved for use through 07/31/2008. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

## PETITION FOR EXTENSION OF TIME UNDER 37 CFR 1.136(a)

FY 2005

(Fees pursuant to the Consolidated Appropriations Act, 2005 (H.R. 4818).)

Docket Number (Optional)

085013-0306980

Application Number 10/728,149

Filed December 4, 2003

For See Addendum

Art Unit 2835

Examiner GREGORY D. THOMPSON

This is a request under the provisions of 37 CFR 1.136(a) to extend the period for filing a reply in the above identified application.

The requested extension and fee are as follows (check time period desired and enter the appropriate fee below):

	Fee	Small Entity Fee	
<input type="checkbox"/> One month (37 CFR 1.17(a)(1))	\$120	\$60	\$ _____
<input type="checkbox"/> Two months (37 CFR 1.17(a)(2))	\$450	\$225	\$ _____
<input checked="" type="checkbox"/> Three months (37 CFR 1.17(a)(3))	\$1020	\$510	\$ <u>1,020.00</u>
<input type="checkbox"/> Four months (37 CFR 1.17(a)(4))	\$1590	\$795	\$ _____
<input type="checkbox"/> Five months (37 CFR 1.17(a)(5))	\$2160	\$1080	\$ _____

☐ Applicant claims small entity status. See 37 CFR 1.27.☐ A check in the amount of the fee is enclosed.☐ Payment by credit card. Form PTO-2038 is attached.☐ The Director has already been authorized to charge fees in this application to a Deposit Account.☒ The Director is hereby authorized to charge any fees which may be required, or credit any overpayment, to Deposit Account Number 161805. I have enclosed a duplicate copy of this sheet.

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

I am the ☐ applicant/inventor.☐ assignee of record of the entire interest. See 37 CFR 3.71.  
Statement under 37 CFR 3.73(b) is enclosed (Form PTO/SB/96).☒ attorney or agent of record. Registration Number 55252☐ attorney or agent under 37 CFR 1.34.  
Registration number if acting under 37 CFR 1.34 \_\_\_\_\_Ryan E. Hatch  
Reg. No. 55252

Typed or printed name

September 21, 2005

Date

(213) 488.7417

Telephone Number

NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below.

☒ Total of 1 forms are submitted.

This collection of information is required by 37 CFR 1.136(a). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 8 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Adjustment Date: 12/16/2005 SDIRETA1  
09/26/2005 HLE333 00000033 161805 10728149  
01 FC:1253 1020.00 CR12/16/2005 SDIRETA1 00000002 161805 10728149  
01 FC:1251 120.00 DA

09/26/2005 HLE333 00000033 161805 10728149

01 FC:1253 1020.00 DA

PATENT OFFICE

PATENT

701 101 10 0 02 85013-306980

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:  
**Chihei KITAHARA**

Serial No.: 10/728,149

Filed: December 4, 2003

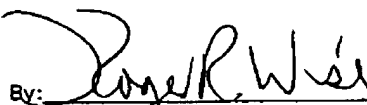
For: **ELECTRONIC SYSTEM HAVING ELECTRONIC  
APPARATUS FOR BUILT-IN HEAT GENERATING  
COMPONENT AND COOLING APPARATUS TO COOL  
THE ELECTRONIC APPARATUS**

Confirmation No.: 9880

Date of Notice of Allowance:  
October 5, 2005

Group Art Unit: 2835

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: MAIL STOP 16, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on November 7, 2005.

By:   
Roger R. Wise, Reg. No. 31,204

**REQUEST FOR REFUND**

MAIL STOP 16  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

An Office Action dated May 24, 2005 was issued for the above-referenced application.

The due date to respond to the office action was on August 24, 2005. A response was submitted on September 21, 2005 together with a Petition for Extension of Time. However, instead of submitting a Petition for Extension for One Month, the applicant's attorney inadvertently filed a

DESIGN AVAILABLE COPY

PATENT  
85013-306980

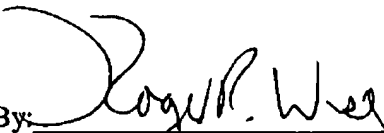
Petition for Extension of Time for Three Months and paid the extension fee of \$1,020.00, instead of \$120.00, which is the extension fee for one month. The extension fee of \$1,020.00 was charged to the undersigned attorney's deposit account as can be seen in the USPTO Deposit Account Statement. The following documents are enclosed for your reference:

- X Office Action dated May 24, 2005.
- X Amendment in Response to the Office Action
- X Petition for Extension of Time for Three Months.
- X USPTO Deposit Account Statement.

In this regard, the undersigned respectfully requests for a refund in the amount of \$900.00 (the difference between \$1,020.00 and \$120.00) to be credited to Deposit Account Number 16-1805.

Respectfully submitted,  
PILLSBURY WINTHROP SHAW PITTMAN LLP

Dated: November 7, 2005

By:   
Roger R. Wise  
Registration No. 31,204  
Attorney for Applicant(s)

725 South Figueroa Street, Suite 2800  
Los Angeles, CA 90017-5406  
Telephone: (213) 488-7100  
Facsimile: (213) 629-1033

PATENT INFORMATION

PTO/SB/17 (12-04)

Approved for use through 07/31/2008. OMB 0651-0032

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Effective on 12/08/2004.

Fees pursuant to the Consolidated Appropriations Act. 2005 (H.R. 4818).

**FEE TRANSMITTAL  
for FY 2005**☐ Applicant claims small entity status. See 37 CFR 1.27**TOTAL AMOUNT OF PAYMENT**(\$)**1,020****Complete If Known**

Application Number	10/728,149
Filing Date	December 4, 2003
First Named Inventor	CHIHEI KITAHARA
Examiner Name	GREGORY D. THOMPSON
Art Unit	2835
Attorney Docket No.	085013-0306980

**METHOD OF PAYMENT** (check all that apply)☐ Check ☐ Credit Card ☐ Money Order ☐ None ☐ Other (please identify):☒ Deposit Account Deposit Account Number: 161805Deposit Account Name: PILLSBURY WINTHROP SHAW  
PITTMAN LLP

For the above-identified deposit account, the Director is hereby authorized to: (check all that apply)

☒ Charge fee(s) indicated below☐ Charge fee(s) indicated below, except for the filing fee☒ Charge any additional fee(s) or underpayment of fees(s) under 37 CFR 1.16 and 1.17☒ Credit any overpayments

WARNING: Information on this form may become public. Credit Card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

**FEE CALCULATION****1. BASIC FILING, SEARCH, AND EXAMINATION FEES**

Application Type	FILING FEES		SEARCH FEES		EXAMINATION FEES		Fee Paid (\$)
	Fee (\$)	Small Entity Fee (\$)	Fee (\$)	Small Entity Fee (\$)	Fee (\$)	Small Entity Fee (\$)	
Utility	300	150	500	250	200	100	
Design	200	100	100	50	130	65	
Plant	200	100	300	150	160	80	
Reissue	300	150	500	250	600	300	
Provisional	200	100	0	0	0	0	

**2. EXCESS CLAIM FEES****Fee Description**

Each claim over 20 or, for Reissues, each claim over 20 and more than in the original patent

Each independent claim over 3 or, for Reissues, each independent claim more than in the original patent

Multiple dependent claims

Small Entity	
Fee (\$)	Fee (\$)
50	25
200	100
380	180

<b>Total Claims</b>	<b>Extra Claims</b>	<b>Fee (\$)</b>	<b>Fee Paid (\$)</b>
10	- 20 or HP = 0	X	0.00

HP = highest number of total claims paid for, if greater than 20

<b>Indep. Claims</b>	<b>Extra Claims</b>	<b>Fee (\$)</b>	<b>Fee Paid (\$)</b>
5	- 5 or HP = 0	X	0.00

HP = highest number of independent claims paid for, if greater than 3

**3. APPLICATION SIZE FEE**

If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(e).

<b>Total Sheets</b>	<b>Extra Sheets</b>	<b>Number of each additional 50 or fraction thereof</b>	<b>Fee (\$)</b>	<b>Fee Paid (\$)</b>
100	- 100 =	0	250.00	

**4. OTHER FEE(S)**

Non-English Specification, 130 fee (no small entity discount)

Other: Extension for Response Within Third Month

Fee Paid (\$)

1,020.00

**SUBMITTED BY**

Signature		Registration No. (Attorney/Agent)	55252	Telephone	213488.7417
Name (Print/Type)	Ryan E. Hatch	Date	September 21, 2005		

This collection of information is required by 37 CFR 1.136. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 30 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/728,149	12/04/2003	Chihel Kitahara	85013-306980	9880

7590

05/24/2005

Roger R. Wise  
PILLSBURY WINTHROP LLP  
Suite 2800  
725 South Figueroa Street  
Los Angeles, CA 90017-5406

EXAMINER

THOMPSON, GREGORY D

ART UNIT

PAPER NUMBER

2835

DATE MAILED: 05/24/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

**RECEIVED**  
PILLSBURY WINTHROP LLP/LA

MAY 26 2005

CL# 085013 MT# 0306980  
ATTY(S) TOSHIBA CORP. 90 SUZUKI  
DUE: AUG. 24, 2005  
DKT BY (1) HSG (2)

# Office Action Summary

Application No.

10/728,149

Applicant(s)

KITAHERA, CHIHU

Examiner

Gregory D. Thompson

Art Unit

2835

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

## Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

## Status

- 1) ☒ Responsive to communication(s) filed on 04 December 2003.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

## Disposition of Claims

- 4) ☒ Claim(s) 14-18 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 14 and 16-18 is/are rejected.
- 7) ☒ Claim(s) 15 is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

## Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

## Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some \* c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
  - ☒ Certified copies of the priority documents have been received in Application No. 10/202,625.
  - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.

## Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date 8/10/04
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date \_\_\_\_\_
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: \_\_\_\_\_

Application/Control Number: 10/728,149  
Art Unit: 2835

PATENT EXAMINER  
Page 2

7/27/2011 10:10:02

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 14, 16-18 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by Behl.

The portable apparatus would be 12 having a heat generating component (not shown) inherently therein with a slot 20 with a first connector (not shown) inherently therein with the slot 20 receiving a cooling module having an electric fan, cooling device 38 with a second connector 32 connected to the first connector of the apparatus 12 to supply fan, device 38 with power (col. 4, lines 63-64). The fan 38 would be connected (broad term) by air flow (thermally) from fan 38 across the component and electrically since when the computer operates as discussed in col. 4, lines 63-64 the fan 38 would be electrically connected (broad term) to the overall computer apparatus circuit diagram path or pattern in which the component is electrically interconnected to provide computer operation.

Regarding claim 16, the second connector 32 having 68 contact pins which would be composed of metal received in standard metal sockets or openings in the first connector would be thermally connected since leads 40 of fan 38 which would be composed of conductive metal, copper would naturally conduct heat on their length to the pins and metal sockets.

Application/Control Number: 10/728,149  
Art Unit: 2835

PATENT INFORMATION  
Page 3

275 NOV 14 11 59 AM

2. Claim 15 is objected to as being dependent upon a rejected base claim, but, would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The art does not teach nor suggest a second connector such as 83 in fig. 3 of the application coupled to sink 71 and exposed outside the apparatus.

3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Sachs discloses a cooling module 10 powered by a connector of a cabinet when inserted..

*OK 19-24 allowable*

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Gregory Thompson whose telephone number is (571)272-2045. The examiner can normally be reached on Monday-Thursday from 6:00am to 4:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lynn Feild, can be reached on (571)272-2800, ext. 35. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

↑

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should



Application/Control Number: 10/728,149

Art Unit: 2835

PATENT & TRADEMARK OFFICE  
Page 4


2005 JUN 14 10 59 02

you have questions on access to the Private PAIR system, contact the Electronic...

Business Center (EBC) at 866-217-9197 (toll-free).

Thompson/ds

05/12/05

  
Gregory Thompson  
Primary Examiner

<b>FORM PTO-1449</b>  <b>INFORMATION DISCLOSURE CITATION</b> <b>IN AN APPLICATION</b>  (Use several sheets if necessary)				Check Number (Optional) 85013-303980		Application No. UNASSIGNED	
				Applicant C. KITAHARA		Filing Date DECEMBER 4, 2003	
				Group Art Unit UNKNOWN			

U.S. PATENT DOCUMENTS												
EXAMINER INITIAL	DOCUMENT NUMBER							DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
<i>S.D.7</i> ↓	8	0	8	4	7	6	9	07/04/00	Moore et al.	I	I	
	8	0	9	4	3	4	7	07/25/00	Bhatia			
	8	2	4	1	0	0	7 B1	06/05/01	Kitahara et al.			
	8	2	7	5	9	4	5 B1	08/14/01	Tsuji et al.			
	8	2	7	6	4	4	8 B1	08/21/01	Maruo			
	8	3	4	3	0	0	0 B1	01/29/02	Tanaka			
	8	3	6	3	5	3	6 B1	03/05/02	Nakamura et al.			
	8	4	0	7	9	2	1 B1	06/18/02	Nakanishi et al.			

FOREIGN PATENT DOCUMENTS													
	DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUBCLASS	Translation	
												Yes	No
<i>S.D.7</i>	2	0	7	0	6	3A	07/28/00	Japan	I	I			
<i>S.D.7</i>	2	3	1	4	2	4A	08/22/00	Japan					
<i>S.D.7</i>	10	2	7	5	0	3 4	10/13/98	Japan					

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)	

EXAMINER <i>S.D.7</i>	DATE CONSIDERED <i>5/10/05</i>
-----------------------	--------------------------------

EXAMINER: Initial if citation conforms with 35 U.S.C. 102(b) or not citation is in compliance with MPEP §608; Draw line through citation if not in conformance and not considered. Attach copy of this form with next communication to the applicant.

BEST AVAILABLE COPY

FORM PTO-1449 (modified)  
To: U.S. Department of Commerce  
(PW FORM PAT-1449)  
Patent and Trademark Office



App. Dkt. No.

0306980

Client Ref.

3KG032527-USA-A

**INFORMATION DISCLOSURE STATEMENT  
BY APPLICANT**

Applicant: KITAHARA

Appn. No.: 10/728,149

Filing Date: December 4, 2003

Date: June 2, 2004

Page 1 of 1

Examiner: Unknown

Group Art Unit: 2835

**U.S. PATENT DOCUMENTS**

Examiner's Initials*	Document Number	Date MM/YYYY	Name (Family Name of First Inventor)	Class	Sub Class	Filing Date (if appropriate)
	AR					
	BR					
	CR					
	DR					
	ER					
	FR					
	GR					
	HR					
	IR					
	JR					
	KR					

**FOREIGN PATENT DOCUMENTS**

	Document Number	Date MM/YYYY	Country	Inventor Name	English Abstract	Translation Readily Available
					Enclosed	No
2/2/2	LR 1192544	09/1998	China			X
4/16/2	MR 1242686	01/2000	China			X
9/10/2	NR 1249469	04/2000	China			X
	OR					
	PR					
	QR					
	RR					
	SR					
	TR					
	UR					
	VR					

**OTHER (including in this order, Author, Title, Periodical Name, Date, Pertinent Pages, etc.)**

WR	
XR	
YR	
ZR	

Examiner

Date Considered: 5/19/04

\*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

**Notice of References Cited**Application/Control No.  
10/728,149Applicant(s)/Patent Under  
Reexamination  
KITAHARA, CHIHELExaminer  
Gregory D. ThompsonArt Unit  
2835

Page 1 of 1

**U.S. PATENT DOCUMENTS**

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
	A	US-6,104,607	08-2000	Behl, Sunny	361/687
	B	US-5,562,410	10-1996	Sachs et al.	415/213.1
	C	US-			
	D	US-			
	E	US-			
	F	US-			
	G	US-			
	H	US-			
	I	US-			
	J	US-			
	K	US-			
	L	US-			
	M	US-			

**FOREIGN PATENT DOCUMENTS**

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification
	N					
	O					
	P					
	Q					
	R					
	S					
	T					

**NON-PATENT DOCUMENTS**

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
	U	
	V	
	W	
	X	

\*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)  
Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

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Docket Number (Optional)

085013-0306980

Application Number 10/728,149

Filed December 4, 2003

For See Addendum

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Registration number if acting under 37 CFR 1.34 \_\_\_\_\_

Signature

Ryan E. Hatch  
Reg. No. 55252

Typed or printed name

September 21, 2005

Date

(213) 488.7417

Telephone Number

NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below.

☒ Total of 1 forms are submitted.

This collection of information is required by 37 CFR 1.136(a). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 6 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

## **Addendum**

**Invention Title:**

**ELECTRONIC SYSTEM HAVING ELECTRONIC APPARATUS FOR BUILT-IN  
HEAT GENERATING COMPONENT AND COOLING APPARATUS TO COOL THE  
ELECTRONIC APPARATUS**

Attorney's Docket 085013-0306980  
Client Reference: T5TM-01S0764-1D

**PATENT**

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re PATENT APPLICATION of:  
CHIHEI KITAHARA

Confirmation Number: 9880

Application No.: 10/728,149

Group Art Unit: 2835

Filed: December 4, 2003

Examiner: GREGORY D. THOMPSON

For: ELECTRONIC SYSTEM HAVING ELECTRONIC APPARATUS FOR BUILT-IN  
HEAT GENERATING COMPONENT AND COOLING APPARATUS TO COOL THE  
ELECTRONIC APPARATUS

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**AMENDMENT/RESPONSE TRANSMITTAL**

Transmitted herewith is an amendment/response for this application.

**EXTENSION OF TIME**

The proceedings herein are for a patent application and the provisions of 37 C.F.R. 1.136 apply. Applicant petitions for a 3 months extension of time under 37 C.F.R. 1.136.

**FEES**

The fee for claims and extension of time (37 C.F.R. 1.16 and 1.17) has been calculated as shown below:

CLAIMS		REMAINING HIGHEST NO.		PRESENT		RATE	ADDIT.
AFTER	HIGHEST NO.	PREVIOUSLY	PRESENT	EXTRA			
AMENDMENT	PAID FOR	PAID FOR	EXTRA				FEE
TOTAL	10	-	20	=	0	X \$ 50.00	= \$ 0.00
INDEP.	5	-	5	=	0	X \$ 200.00	= \$ 0.00
FIRST PRESENTATION OF MULTIPLE DEP. CLAIM						+ \$ 360.00	= \$ 0.00
TOTAL ADDITIONAL CLAIM FEE							\$ 0.00
EXTENSION OF TIME FEE							\$ 1,020.00
GRAND TOTAL							\$ 1,020.00

Attorney's Docket 085013-0306980  
Client Reference: T5TM-01S0764-1D

PATENT

**FEE PAYMENT**

Authorization is hereby made to charge the amount of \$1,020.00 to Deposit Account No. 161805. Charge any additional fees required by this paper or credit any overpayment in the manner authorized above. A duplicate of this paper is attached.

Date: September 21, 2005

PILLSBURY WINTHROP SHAW PITTMAN LLP  
725 South Figueroa Street  
Suite 2800  
Los Angeles, CA 90017-5406  
213 488.7417

  
\_\_\_\_\_  
RYAN E.. HATCH  
Reg. No. 55252

**CERTIFICATION UNDER 37 C.F.R. §§ 1.8 and/or 1.10\***

(When using Express Mail, the Express Mail label number is *mandatory*; Express Mail certification is *optional*.)

I hereby certify that, on the date shown below, this paper (along with any paper referred to as being attached or enclosed) is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Date: September 21, 2005

  
\_\_\_\_\_  
Signature

RYAN E. HATCH

(type or print name of person certifying)

\* Only the date of filing (§ 1.6) will be the date used in a patent term adjustment calculation, although the date on any certificate of mailing or transmission under § 1.8 continues to be taken into account in determining timeliness. See § 1.703(j). Consider "Express Mail Post Office to Addressee" (§ 1.10) or facsimile transmission (§ 1.6(d)) for the reply to be accorded the earliest possible filing date for patent term adjustment calculations.



PATENT  
085013-0306980

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

KITAHARA

Serial No: 10/728,149

Filed: 12/04/2003

For: ELECTRONIC SYSTEM HAVING  
ELECTRONIC APPARATUS FOR BUILT-IN  
HEAT GENERATING COMPONENT AND  
COOLING APPARATUS TO COOL THE  
ELECTRONIC APPARATUS

Art Unit: 2835  
Examiner: Thompson, Gregory D.

I hereby certify that this correspondence is  
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Alexandria, VA 22313-1450, on

September 21, 2005

Date of Deposit

Ryan E. Hatch, Reg. No. 55,252

Name

Signature

Sept. 21, 2005

Date

**AMENDMENT**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Examiner Thompson:

In response to the May 26, 2005 Office Action, for which the due date for  
response has been extended to September 26, 2005 pursuant to the enclosed Petition  
for Extension of Time, please enter and consider the following amendment and remarks  
in connection with the above-identified application.

IN THE CLAIMS:

Please amend the claims as follows:

1-14. (Cancelled)

15. (Currently amended)

A cooling apparatus, detachably coupled with a portable electronic apparatus having a heat generating component and a first connector to supply power, to cool said heat generating component, comprising:

a cooling module having an electric fan and being connected to said heat generating component when coupled with said portable electronic apparatus; and  
a second connector, electrically connected to said electric fan, being connected to said first connector when coupled with said portable electronic apparatus to supply said electric fan with the power received from the first connector;

~~The cooling apparatus according to claim 14,~~ wherein said cooling module includes a heat sink thermally connected to said heat generating component when coupled with said portable electronic apparatus and is cooled by said electric fan, and said second connector is coupled to said heat sink and is exposed outside the cooling apparatus.

16. (Currently amended) A cooling apparatus, detachably coupled with a portable electronic apparatus having a heat generating component and a first connector to supply power, to cool said heat generating component, comprising:

a cooling module having an electrically-driven cooling device and being connected to said heat generating component when coupled with said portable electronic apparatus; [and]

a heat sink thermally connected to said heat generating component; and

a second connector electrically connected to said cooling device and thermally connected to said first connector when coupled with said portable electronic apparatus to supply said cooling device with the power received from the first [first] connector[.];

wherein said second connector is coupled to said heat sink.

17. (Currently amended) A cooling apparatus, comprising:

a cooling module, having an electric fan, adapted to couple with a portable electronic apparatus having a heat-generating component and a first connector to supply power; [and]

a heat sink thermally connected to said heat-generating component; and

a second connector, electrically connected to said electric fan, being connected to said first connector when coupled with said portable electronic apparatus to supply said electric fan with the power received from the first connector[.]

wherein said second connector is coupled to said heat sink.

18. (Currently amended) A cooling apparatus, comprising:

a cooling module, having an electrically-driven cooling device, adapted to couple with a portable electronic apparatus having a heat generating component and a first connector to supply power; [and]

a heat sink thermally connected to said heat generating component; and

a second connector, electrically connected to said cooling device, being connected to said first connector when coupled with said portable electronic apparatus to supply said cooling device with the power received from the first connector[.]

wherein said second connector is coupled to said heat sink.

19. (Previously presented) A cooling apparatus, detachably coupled to an electronic apparatus having a first heat sink thermally connected to a heat generating component and a first connector to supply power provided in the first heat sink, and which cools the heat generating component, said cooling apparatus comprising:

a second heat sink thermally connected to the first heat sink when coupled to the electronic apparatus;

an electronic fan to supply cooling air to the second heat sink; and

a second connector provided in the second heat sink, the second connector being electrically connected to the electronic fan, and being brought into connection with the first connector to supply power to the electronic fan when coupled with the electronic apparatus.

20. (Previously presented) The cooling apparatus according to claim 19, wherein the second heat sink has a heat receiving portion thermally connected to the first heat sink, and the second connector is provided in the heat receiving portion.

21. (Previously presented) The cooling apparatus according to claim 19, wherein the first connector and the second connector each have terminals supplied with a signal to control rotation of the electronic fan.

22. (Previously presented) The cooling apparatus according to claim 19, wherein the first connector and the second connector each have terminals supplied with a signal to recognize mutual coupling of the electronic apparatus and the cooling apparatus.

23. (Previously presented) The cooling apparatus according to claim 19, further including an apparatus main body on which the electronic apparatus rests, the

second heat sink being movable between a thermal connection position which is projected from the apparatus main body and is thermally connected to the first heat sink, and a housing position which is contained within the apparatus main body, wherein when the second heat sink moves to the thermal connection position, the second connector is electrically connected to the first connector, and when the second heat sink moves to the housing position, an electrical connection between the second connector and the first connector is disengaged.

24. (Previously presented) The cooling apparatus according to claim 23, further including an operation mechanism to move the second heat sink to at least one of the thermal connection position and the housing position, and a switch to close a circuit to connect the second connector and the electric fan when the second heat sink moves to the thermal connection position, and to open the circuit when the second heat sink moves to the housing position, the switch being opened and closed by the operation mechanism.

REMARKS

Claims 15 - 24 are pending. Claim 14 has been cancelled and claims 15-18 have been amended. No new matter has been introduced.

In the May 26, 2005 Office Action, the Examiner rejected claims 14 and 16-18, and objected to claim 15. Claims 19-24 were added by a Preliminary Amendment, but not addressed in the May 26, 2005 Office Action.

In the May 26, 2005 Office Action, the Examiner stated that the art does not teach nor suggest a second connector such as 83 in Fig. 3 of the application coupled to sink 71 and exposed outside the apparatus. The Examiner stated that Claim 15 would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims. Applicant has rewritten claim 15 to be in independent form including all limitations of claim 14, and therefore submits that claim 15 is allowable.

Applicant has amended claims 16-19 to recite limitations similar to amended claim 15. Specifically, these claims now recite *a heat sink thermally connected to said heat generating component ... wherein said second connector is coupled to said heat sink*. Thus, Applicant submits that claims 16-19 are also allowable.

On September 8, 2005, Applicant's attorney had a telephonic interview with the Examiner. The Examiner indicated that he would create an interview summary for the file. In the interview, the Examiner indicated that the art does not teach or suggest *a second heat sink thermally connected to the first heat sink when coupled to the electronic apparatus and a second connector provided in the second heat sink, the second connector being electrically connected to the electronic fan, and being brought*

*into connection with the first connector to supply power to the electronic fan when coupled with the electronic apparatus, as recited by independent claim 19. Therefore, Applicant respectfully submits that independent claim 19 distinguishes over the cited art.*

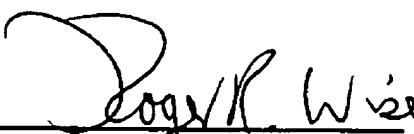
Dependent claims 20-24 depend, directly or indirectly, from independent claim 19. Therefore, Applicant respectfully submits that dependent claims 20-24 distinguish over the cited art for the same reasons discussed above in regard to independent claim 19.

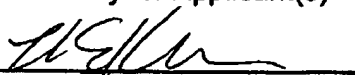
Applicant believes that the foregoing remarks place the application in condition for allowance, and a favorable action is respectfully requested. If for any reason the Examiner finds the application other than in condition for allowance, the Examiner is requested to call either of the undersigned attorneys at the Los Angeles telephone number (213) 488-7100 to discuss the steps necessary for placing the application in condition for allowance should the Examiner believe that such a telephone conference would advance prosecution of the application.

Respectfully submitted,

PILLSBURY WINTHROP SHAW PITTMAN LLP

Date: September 21, 2005

By:   
Roger R. Wise  
Registration No. 31,204  
Attorney for Applicant(s)

By:   
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**Deposit Account Statement**

**Requested Statement Month:** September 2005  
**Deposit Account Number:** 161805  
**Name:** PILLSBURY WINTHROP SHAW PITTMAN LLP.  
**Attention:** JOSIE LOZANO  
**Address:** 725 S FIGUEROA  
**City:** LOS ANGELES  
**State:** CA  
**Zip:** 90017-5406  
**Country:** UNITED STATES OF AMERICA

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09/23 85	PCT/US05/32428	0317788	8007	\$20.00	\$21,582.00
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09/23 549	76342034	81156-284734	7004	\$150.00	\$20,682.00
09/26 17	5662706	044827-0000001	8021	\$120.00	\$20,562.00
09/26 43	10728149	085013-0306980	1253	\$1,020.00	\$19,542.00
09/26 55	10135137	PW250191	2801	\$395.00	\$19,147.00
09/26 56	10135137	PW250191	2253	\$510.00	\$18,637.00
09/26 57	10094154	P 0277044 H7	1251	\$120.00	\$18,517.00
09/26 648	2358260	81298-247422	7205	\$100.00	\$18,417.00
09/26 649	2358260	81298-247422	7208	\$200.00	\$18,217.00
09/26 708	2281987	72131-790001	7205	\$100.00	\$18,117.00
09/26 709	2281987	72131-790001	7208	\$200.00	\$17,917.00
09/27 17	11172137	051270-0316664	1051	\$130.00	\$17,787.00
09/27 72	09403183	56318.255228	1501	\$1,400.00	\$16,387.00
09/27 73	09403183	56318.255228	8001	\$30.00	\$16,357.00
09/28 91	5662706	044827-0000001	8021	\$120.00	\$16,237.00
09/28 99	11234722	40088-317144	1011	\$300.00	\$15,937.00
09/28 100	11234722	40088-317144	1111	\$500.00	\$15,437.00
09/28 101	11234722	40088-317144	1311	\$200.00	\$15,237.00
09/28 102	11234722	40088-317144	1202	\$900.00	\$14,337.00
09/28 143	76212376	056922-0000001	8521	\$40.00	\$14,297.00
09/28 144	76212376	056922-0000001	8522	\$50.00	\$14,247.00
09/28 214	6889842	056922-0000001	8021	\$400.00	\$13,847.00
09/28 247	11234523	40088-317143	1011	\$300.00	\$13,547.00
09/28 248	11234523	40088-317143	1111	\$500.00	\$13,047.00
09/28 249	11234523	40088-317143	1311	\$200.00	\$12,847.00
09/28 250	11234523	40088-317143	1202	\$1,950.00	\$10,897.00
09/29 3	E-REPLENISHMENT		9203	-\$17,995.00	\$28,892.00
09/29 11	10239606	P0277397	1801	\$790.00	\$28,102.00
09/29 145	10044766	P81674249754	1501	\$1,400.00	\$26,702.00
09/29 146	10044766	P81674249754	1504	\$300.00	\$26,402.00
09/29 199	11235622	41999-316011	1011	\$300.00	\$26,102.00
09/29 200	11235622	41999-316011	1111	\$500.00	\$25,602.00
09/29 201	11235622	41999-316011	1311	\$200.00	\$25,402.00
09/29 202	11235622	41999-316011	1202	\$3,350.00	\$22,052.00
09/29 203	11235622	41999-316011	1201	\$600.00	\$21,452.00
09/30 41	10780158	0308354	1501	\$1,400.00	\$20,052.00
09/30 42	10780158	0308354	1504	\$300.00	\$19,752.00
09/30 43	10780158	0308354	8001	\$30.00	\$19,722.00
09/30 198	11237180	081448-0316742	1011	\$300.00	\$19,422.00
09/30 199	11237180	081448-0316742	1111	\$500.00	\$18,922.00
09/30 200	11237180	081448-0316742	1311	\$200.00	\$18,722.00

START  
BALANCESUM OF  
CHARGESSUM OF  
REPLENISH BALANCE

\$24,832.00

\$82,042.00

\$75,932.00 \$18,722.00

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